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 ACCESSION NUMBER: 1994-032009 [04] WPINDEX Full-text  
 DOC. NO. CPI: C1994-014805 [04]  
 TITLE: Hot-melt adhesive compsn for bonding biodegradable  
 plastics - contains high mol thermoplastic resin and  
 tackifier, either or both contg poly:lactic acid  
 copolymer resin  
 DERWENT CLASS: A17; A23; A81; G03  
 INVENTOR: DOI K; KAWASAKI E; KITAMURA T; YASHIRO K  
 PATENT ASSIGNEE: (MITK-C) MITSUI TOATSU CHEM INC  
 COUNTRY COUNT: 1

PATENT INFO ABBR.:

PATENT NO	KIND DATE	WEEK	LA	PG	MAIN IPC
JP 05339557	A 19931221 (199404)*	JA	16	[0]	<--
JP 3330390	B2 20020930 (200271)	JA	16		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP 05339557 A		JP 1992-152177	19920611
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FILING DETAILS:

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The compsn. contains thermoplastic resin and a tackifier, one or both of them  
 containing poly-lactic acid or lactic acid copolymer resin derived from lactic  
 acid and other hydroxycarboxylic acids. The system has a melt viscosity of 10  
 to 300,000 cps. at 180 to 210 deg.C. A part or whole of the thermoplastic  
 resin and/or tackifier is L type and/or D type poly-lactic acid or lactic acid  
 copolymer resin derived from L type and/or D type lactic acid and other  
 hydroxycarboxylic acids. The thermoplastic resin is one of or a mixture of two  
 or more of high molecular modified poly-lactic acid having a molecular weight  
 of higher than 10,000 on average selected from (a) urethanated poly-lactic  
 acid, (b) esterified poly-lactic acid, (c) epoxy-modified poly-lactic acid,  
 (d) urethanated modified poly-lactic acid, (e) silylated poly-lactic acid and  
 (f) terminal esterified poly-lactic acid. The tackifier is one or more of low  
 molecular poly-lactic acid having a mol. lower than 5,000 on average selected  
 from (a) to (f). Other thermoplastic resins are polyamide, polyester,  
 polyester-urethane, polycarbonate and polyolefin and other tackifiers are  
 rosin ester and terpene-phenol resin. At least one wax component selected from  
 natural wax, ester-amide wax and polyester wax and/or compatibilising  
 plasticiser for poly-lactic acid is added to the compsn. in amount 0.1 to 50  
 weight%.